ASSURE TESTED

DiamondDect 3

DiamondDect 3 is a portable desktop diamond verification instrument for mounted and loose stones, designed to separate diamonds from synthetic diamonds. DiamondDect 3 is manually operated but gives an automatic test result.

The instrument tests individual loose and mounted stones and automatically displays one of the following results:

◊ Natural
◊ CVD Synthetic
◊ Abnormal

The 'abnormal' results could contain potential synthetic diamonds and diamonds. These referrals should be tested further for full verification. DiamondDect 3 need to be recalibrated before usage or after it has been moved.

Stone Testing Capabilities

Weight of stones:	**0.005 ct - 10 ct**
Size of stones:	**1 mm - 10 mm**
Colour of stones:	**D-J**
Shape of stones:	**All**
Diamond simulants:	**No**
Mounted stones:	**Yes** not yet ASSURE Tested

Instrument Capabilities

Automated feed:	**No**
Automated results:	**Yes**
Automated dispense:	**No**
Detect or Refer (synthetic diamonds)	**Detect**
Detect or Refer (diamond simulants)	**N/A**
Multiple stones at once:	**No**
Training required:	**No**

Instrument Performance

The results demonstrate the performance of the DiamondDect 3 tested by a novice operator:

	Core Sample	Smalls Sample
Diamond False Positive Rate *Optimal rate 0%*	0%	1.0%
Diamond Referral Rate *Optimal rate 0%*	0.6%	4%
Diamond Accuracy Rate *Optimal rate 100%*	96.4%	90.6%
Speed *Stones tested per hour*	289	289

Instrument Specifications

22 cm (w) x 20 cm (d) x 12 cm (h)

3 kg

5,730 USD February 2019

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